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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/782,932      | 02/23/2004  | Young Un Bang        | 8733.078.20-US      | 7678             |

30827 7590 03/28/2007  
MCKENNA LONG & ALDRIDGE LLP  
1900 K STREET, NW  
WASHINGTON, DC 20006

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| EXAMINER |
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CHANG, YEAN HSI

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| ART UNIT | PAPER NUMBER |
|----------|--------------|

2835

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE  | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS                               | 03/28/2007 | PAPER         |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/782,932             | BANG, YOUNG UN      |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | Yean-Hsi Chang         | 2835                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 22 January 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 8-20, 22, 24-27, 32-35 and 40-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 8-20, 22, 24-27, 32-35 and 40-44 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37-CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 8-20, 22, 24-27, 32-35 and 40-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al. (US 6,212,067 B1) in view of Lewis et al. (US 5,422,751) and Herron et al. (US 5,196,993).

Regarding claims 11, 15-16, 20, 22, 24, 32 and 40-44, Nakajima teaches a computer (fig. 1) comprising: a main body (2) having an interfacing device (6), a display apparatus (3) mechanically coupled to the main body (fig. 1) for displaying picture data received from the main body, said display apparatus having a liquid crystal display module (11) having a frame (11b), an enclosure (10) having a conductive surface (14a), loaded with the liquid crystal display module for surrounding a side surface (see fig. 2) and a rear surface (not shown) of the liquid crystal display module, a front case (13) secured to the enclosure and the liquid crystal display module (see fig. 2), and a hinge (21) having a rotation axis (25), said hinge having a hinge arm (27) extending from the rotation axis to the enclosure (see fig. 8), the hinge arm being positioned between the liquid crystal display module and the enclosure (see fig. 8), wherein the frame, the hinge

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arm, the enclosure, and the front case are all electrically connected, and wherein the liquid crystal display module is electromagnetically shielded and grounded through the hinge (see figs. 8 and 10C).

Nakajima further teaches the liquid crystal display module being grounded to the enclosure through a grounding strip (43) except teaching the frame of the liquid crystal display module and the front case being made from metal.

Herron teaches an enclosure (60) of a LCD display apparatus (14), being made from aluminum alloy (see col. 5, lines 1-8); and Lewis teaches a LCD display module (66) having a metal frame (69).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the devices of Nakajima with the front case taught by Herron and the LCD frame taught by Lewis for better EMI shielding effect, since they all teach a LCD display module for a computer.

Regarding claims 8-10, 12-14, 17-19, 25-27 and 33-35, Nakajima et al. in view of Lewis et al. and Herron et al. fails to teach the front case having a thickness of about 0.5-0.7 mm, or less than about 1.2 mm, or about 0.5 mm. It would have been an obvious matter to one having ordinary skill in the art at the time the invention was made to select a thickness of the front case being either of about 0.5-0.7 mm, less than 1.2 mm, or about 0.5 mm, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

***Response to Arguments***

3. Applicant's arguments filed 1/22/07 have been fully considered but they are not persuasive. Regarding claims 40-44, Applicant argues, "because Nakajima does not teach a front case being made of metal, it follows that Nakajima does not teach a front case being electrically connected", "Nakajima does not teach a front case being electrically connected to the frame, the hinge arm, and the enclosure", and "nowhere in Herron is there any teaching of the front case being electrically connected to the frame, the hinge arm, and the enclosure, as recited ...". Since Lewis teaches a metal frame of a LCD display, Herron teaches a metal enclosure including a metal front case for a LCD display, and Nakajima teaches an enclosure, a LCD frame and a hinge arm being electrically connected and grounded through the hinge as stated in col. 7, line 40 through col. 8, line 43. The combination of Nakajima, Lewis and Herron discloses what being claimed.

***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### ***Correspondence***

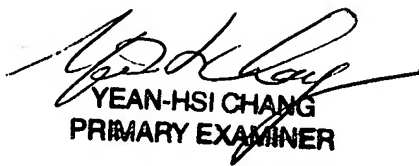
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (571) 272-2038. The examiner can normally be reached on 08:00 - 16:00, Monday, Tuesday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the Art Unit phone number is (571) 272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang  
Primary Examiner  
Art Unit: 2835  
March 26, 2007



YEAN-HSI CHANG  
PRIMARY EXAMINER